	Application No.	Applicant(s)
Notice of Allowability	10/611,486	CLINTON ET AL.
	Examiner	Art Unit	
	Oanh Duong	2155	

-- *The MAILING DATE of this communication appears on the cover sheet with the correspondence address*--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *11/22/2006*.

2. ☒ The allowed claim(s) is/are *1-3,5-14,16-18,20-25,27-29,31-40,42-50 and 52-56*.

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All   b)☐ Some*   c)☐ None   of the:

       1.☐ Certified copies of the priority documents have been received.

       2.☐ Certified copies of the priority documents have been received in Application No. _____ .

       3.☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

    * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

    (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

        1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____ .

    (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of

        Paper No./Mail Date _____ .

    Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)

2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)

3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____

4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application

6. ☒ Interview Summary (PTO-413), Paper No./Mail Date *20061205* .

7. ☒ Examiner's Amendment/Comment

8. ☒ Examiner's Statement of Reasons for Allowance

9. ☐ Other _____ .

Oanh Duong

INTERVIEW SUMMARY

1.   Examiner contacted applicant's representative, Colby Nuttall (Registration No.

58,146), on November 29, 2006 for discussing about a proposed amendment. Examiner

suggested applicant to incorporate the limitation of claim 51 into claims 1, 16, 27, and

38 in order to place the application in condition for allowance. Applicant's representative

agreed to authorize examiner to incorporate the subject matter of claim 51 (i.e., <u>wherein

the health engine subsystem comprises task execution logic for enforcing mutual

exclusion rules regarding execution of tasks by a consumer of corrective action to be

taken to improve the personal computer health, and wherein the client user interface

subsystem reports to the end-user corrective action for improving the health of the

personal computer, and wherein enforcing the mutual exclusion rules comprises

determining that two tasks cannot be performed simultaneously and while displaying the

tasks to the end-user of the personal computer, disabling execution of one of the tasks

in a client interface displayed to the end-user</u>) into claim 1, 16, 27, and 38 in

Examiner's amendment.

EXAMINER'S AMENDMENT

2.   An examiner's amendment to the record appears below. Should the changes

and/or additions be unacceptable to applicant, an amendment may be filed as provided

by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be

submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview

with Colby Nuttall (Registration No. 58,146) on November 29, 2006.

The title of the invention is changed to: "**Method and System for Administering**

Personal Computer Health by Forcing a Mutual Exclusion Rules Regarding

Execution of Tasks by a Consumer of Corrective Actions and Display of the

Tasks to End-user".

The claims of the invention are amended as follows:

1. (Currently Amended) A system for administering personal computer health

status so as to provide an extensible framework in which multiple service providers can

each monitor different aspects of personal computer health and provide the results to an

end-user of a the personal computer in a single, cohesive interface, the system

comprising:

a provider subsystem for providing services relating to the personal computer

health status, wherein the services include acquiring health status information of the

personal computer;

a health engine subsystem for processing the health status information acquired

by the provider subsystem and rendering health status notifications, the health engine

subsystem comprising an open framework having a standardized interface allowing

external service providers to each register one or more provider modules with the

health engine subsystem and thereby ~~include~~ including multiple registered provider

modules from multiple external service providers within the provider subsystem, each

provider module of an external service provider acquiring the health status information

for a particular aspect of personal computer health, the particular aspect being different

from aspects of personal computer health acquired by other provider modules, wherein

the health engine subsystem comprises task execution logic for enforcing mutual

exclusion rules regarding execution of tasks by a consumer of corrective actions to be

taken to improve the personal computer health; and

a client user interface subsystem for reporting overall health status of the

personal computer to the end-user of the personal computer on a per computer basis

and in accordance with the health status notifications, wherein the client user interface

subsystem reports to the end-user corrective actions for improving the health of the

personal computer, and wherein enforcing the mutual exclusion rules comprises

determining that two tasks of the tasks cannot be performed simultaneously and while

displaying the two tasks to the end-user of the personal computer, disabling execution

of one of the two tasks in a client interface displaced to the end-user.

4. (Cancelled)

16. (Currently Amended) A method for administering personal computer health

status so as to provide an extensible framework in which multiple service providers

can each monitor different aspects of personal computer health and provide the

results to an end-user of a ~~the~~ personal computer in a single, cohesive interface, the method comprising the steps of:

providing, by a provider subsystem, services relating to the personal computer health status, wherein the services include acquiring health status information of the personal computer;

processing, by a health engine subsystem, the health status information acquired by the provider subsystem and rendering health status notifications, the health engine subsystem comprising an open framework having a standardized interface allowing external service providers to each register one or more provider modules with the health engine subsystem and thereby ~~include~~ including multiple registered provider modules from multiple external service providers within the provider subsystem, each provider module of an external service provider acquiring the health status information for a particular aspect of personal computer health, the particular aspect being different from aspects of personal computer health acquired by other provider modules, wherein the health engine subsystem comprises task execution logic for enforcing mutual exclusion rules regarding execution of tasks by a consumer of corrective actions to be taken to improve the personal computer health; ~~and~~

reporting, by a client user interface subsystem, overall health status of the personal computer to the end-user of the personal computer on a per computer basis and in accordance with the health status notifications; and

displaying to the end-user, by the client user interface subsystem, tasks

indicative of corrective actions for improving the health of the personal computer, and

wherein enforcing the mutual exclusion rules comprises determining that two tasks of

the tasks cannot be performed simultaneously and while displaying the tasks to the end-

user of the personal computer, disabling execution of one of the two tasks in a client

interface displayed to the end-user.

19. (Cancelled).

27. (Currently Amended) A computer-readable storage medium including

computer-executable instructions for administering personal computer health status so

as to provide an extensible framework in which multiple service providers can each

monitor different aspects of personal computer health and provide the results to an end-

user of a the personal computer in a single, cohesive interface, the computer-

executable instructions, being executed by a computer, facilitating performing the steps

of:

providing, by a provider subsystem, services relating to the personal computer

health status, wherein the services include acquiring health status information of the

personal computer;

processing, by a health engine subsystem, the health status information acquired

by the provider subsystem and rendering health status notifications, the health engine

subsystem comprising an open framework having a standardized interface allowing

external service providers to each register one or more provider modules with the health

engine subsystem and thereby ~~include~~ including multiple registered provider modules

from multiple external service providers within the provider subsystem, each provider

module of an external service provider acquiring the health status information for a

particular aspect of personal computer health, the particular aspect being different from

aspects of personal computer health acquired by other provider modules, wherein the

health engine subsystem comprises task execution logic for enforcing mutual exclusion

rules regarding execution of tasks by a consumer of corrective actions to be taken to

improve the personal computer health; ~~and~~

reporting, by a client user interface subsystem, overall health status of the

personal computer to the end-user of the personal computer on a per computer basis

and in accordance with the health status notifications; and

displaying to the end-user, by the client user interface subsystem, tasks

indicative of corrective actions for improving the health of the personal computer, and

wherein enforcing the mutual exclusion rules comprises determining that two tasks of

the tasks cannot be performed simultaneously and while displaying the tasks to the end-

user of the personal computer, disabling execution of one of the two tasks in a client

interface displayed to the end-user.

30. (Cancelled).

38. (Currently Amended) A system for administering personal computer health

status so as to provide an extensible framework in which multiple service providers can

each monitor different aspects of personal computer health and provide the results to an

end-user of ~~the~~ a personal computer in a single, cohesive interface, the system

comprising:

means for providing, by a provider subsystem, services relating to the personal

computer health status, wherein the services include acquiring health status information

of the personal computer;

means for processing, by a health engine subsystem, the health status

information acquired by the provider subsystem and rendering health status

notifications, the health engine subsystem comprising an open framework having a

standardized interface allowing external service providers to each register one or more

provider modules with the health engine subsystem and thereby ~~include~~ including

multiple registered provider modules from multiple external service providers within the

provider subsystem, each provider module of an external service provider acquiring the

health status information for a particular aspect of personal computer health, the

particular aspect being different from aspects of personal computer health acquired by

other provider modules, wherein the health engine subsystem comprises task execution

logic for enforcing mutual exclusion rules regarding execution of tasks by a consumer

of corrective actions to be taken to improve the personal computer health; ~~and~~

means for reporting, by a client user interface subsystem, overall health status of

the personal computer to the end-user of the personal computer on a per computer

basis and in accordance with the health status notifications; and

<u>means for displaying to the end-user, by the client user interface subsystem,</u>

<u>tasks indicative of corrective actions for improving the health of the personal computer,</u>

<u>and wherein enforcing the mutual exclusion rules comprises determining that two tasks</u>

<u>of the tasks cannot be performed simultaneously and while displaying the tasks to the</u>

<u>end-user of the personal computer, disabling execution of one of the two tasks in a</u>

<u>client interface displayed to the end-user.</u>

41. (Cancelled).

51. (Cancelled).

52. (Currently Amended) The system of ~~claim 4~~ <u>claim 1,</u> wherein task execution

coordination logic for enforcing mutual exclusion rules comprises the health engine

subsystem applying a mutual exclusion algorithm to ensure that two recommended

remedial actions do not render an overall negative result.

56. (Currently Amended) The system of claim 1, wherein the open framework is

<u>configured</u> to allow registration of multiple registered provider modules <u>that</u> include at

least backup, security, firewall and anti-virus modules.

REASONS FOR ALLOWANCE

3.   Claims 1-3, 5-14, 16-18, 20-25, 27-29, 31-40, 42-50, and 52-56 are allowed.

The following is an examiner's statement of reasons for allowance:

With respect to claims 1, 16, 27, and 38, the prior art of record, individually or in combination fails to teach, suggest or render obvious the claimed limitations in combination with the specific added limitations as recited in independent claims 1, 16, 27 and 38. Specially, inter alia, the prior art of record fails to teach or suggest system, method and computer readable storage medium including computer-executable instructions for administering personal computer health status so as to provide an extensible framework in which multiple service providers can each monitor different aspects of personal computer health and provide results to an end-user of the personal computer, wherein a health engine subsystem comprises task execution logic for enforcing mutual exclusion rules regarding execution tasks by providers of correction actions to be taken to improve the personal health computer (as defined in applicant's specification from page 11 line 25 to page 12 line 13), and wherein enforcing the mutual exclusion rules comprises determining that two tasks cannot be performed simultaneously, and while displaying the two tasks to the end-user of the personal computer, disabling execution of one of the two tasks in a client interface displayed to the end-user (as defined in applicant's specification in page 15 lines 12-19).

Claims 2-3, 5-14, 17-18, 20-25, 28-29, 31-37, 39-40, 42-50, and 52-56 further limit the allowed claims, therefore, they are also allowed.
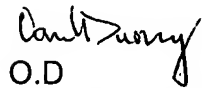
Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4.   Any inquiry concerning this communication or earlier communications from the examiner should be directed to Oanh Duong whose telephone number is (571) 272-3983. The examiner can normally be reached on Monday- Friday, 9:30PM - 6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Saleh Najjar can be reached on (571) 272-4006. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

O.D
December 5, 2006